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SN

**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

SN/T 1039-2020

Replacing SN/T 1039-2002

**Sampling and sample preparation method of imported and
exported ton packaging silicon carbide**

进出口吨包装碳化硅取样制样方法

(English Translation)

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces SN/T 1039-2002 "Method for Sampling and Sample Preparation of Imported and Exported Tons of Packaging Silicon Carbide".

Compared with SN/T 1039-2002, the main technical changes of this standard are as follows.

- Edited changes to the text in "1 Scope" and "2 Normative Reference Documents";
- Amend "ton packaging" in "Scope 1" to "ton bag packaging";
- In "2 Normative Reference Documents", delete the standard year;
- In "Table 1", "The minimum number of copies should be taken" is added to the header;
- Add two notes in "Table 1";
- In "Table 3", the unit of "incremental shovel volume" is changed from mL to cm³;

- Edited the "4.3.1" formula part;

--Edited the "5.3" part.

This standard was proposed and managed by the General Administration of Customs of the People's Republic of China.

Drafting organizations of this standard. Yinchuan Customs of the People's Republic of China and Shanghai Customs of the People's Republic of China.

1 Scope of application

This standard specifies the method for sampling and particle size determination of imported and exported ton-bag-packaged silicon carbide.

This standard applies to the extraction and preparation of samples for the determination of chemical composition, moisture and particle size of silicon carbide packaged in large bags.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article Pieces. For undated reference documents, the latest version (including all amendments) is applicable to this document.

GB/T.2007.1 General Rules for Sampling and Sample Preparation of Bulk Mineral Products Manual Sampling Method GB/T.2007.2 General Rules for Sampling and Sample Preparation of Bulk Mineral Products Manual Sample Preparation Method GB/T.2007.7 General Rules for Sampling and Sample Preparation of Bulk Minerals GB/T 4891 Method for selecting sample size for estimating average batch (or process) quality GB/T 6679 General Rules for Sampling of Solid Chemicals GB/T 13732 General Rules for Sampling Inspection of Bulk Materials with Uniform Granularity

3 General rules

3.1

This standard stipulates that the total accuracy betasdm is $\pm 0.6\%$, and the sampling accuracy betas is $\pm 0.4\%$; the accuracy is verified based on the silicon carbide content See Appendix A.

3.2

If the quality is obviously uneven, the package difference is greater than 2%, the maximum particle size exceeds the specified or mixed with foreign impurities, it should be processed and re-organized.

sampling.

3.3

The equipment, tools and sample container used for sampling and sample preparation should be kept clean, strong and durable.

3.4

The analysis samples should be kept properly, and the storage time should generally not be less than 6 months for inspection.

4.1 Overview

Quantitatively packaged silicon carbide is generally 60 t as an inspection lot. Sample packages are randomly selected according to the number specified in Table 1. The specific sampling method is as per 4.5 Require execution. 5% of each batch can be poured randomly, and 0.5 kg samples are randomly sampled from the middle and lower parts with a sampling shovel, and the rest is carried out according to regulations. If not Enough for one inspection lot, less than 30 t (ton packaging), use the bag-by-pack sampling method; if the particle size is not uniform, use the upside-down three-shovel method;

For degrees below 10 mm, use the skewer diagonal method. Refer to Appendix A for examples of quality fluctuation evaluation, and refer to the appendix for the accuracy calibration method.

Record B.

Note 1: SW is quality fluctuation.

Note 2: Sampling package by package for less than 30 bags per ton.

4.2 Sampling tools

4.2.1

Sampling shovel. a clean shovel with a volume of about 125 cm³. See GB/T.2007.1 for specific dimensions.

4.2.2

Sample drill. made of stainless steel with $\phi 15$ mmx500 mm ($\phi 30$ mmx750 mm).

4.2.3

Sample container with lid or clean plastic bag.

4.3 Number of incremental samples (number of sampling packages)

4.3.1

The minimum number of copies should be taken as shown in Table 1.

4.3.2

Sampling of 50 kg packaging can be carried out according to GB/T 6679. The number of copies (N1) of different batches is calculated according to formula (1).

4.5.1 Packet-by-packet sampling method

Sampling with a sampling shovel, take approximately 0.5 kg aliquots from 30 cm to 50 cm below the mouth of the bag. Sampling with a sampling drill, which is completely diagonal from the mouth of the package Insert, rotate the skewer 180, take about 0.5 kg sample.

4.5.2 Three shovel method

According to the type of batch and quality fluctuation (see appendix B), sample packages are randomly selected according to the number of copies specified in Table 1, and the packages are poured in a neat and tidy state.

On a clean iron plate or concrete floor, forming a cone shape, insert the sample shovel into the center of the circle from the three busbars of the outer ring of the cone bottom at an angle of 120°, and then Lift up vertically to take a total of 3 scoops, each bag totaling 0.5 kg.

4.5.3 Skewer diagonal method

Randomly draw sample packets according to the number of incremental samples specified in Table 1, open the bag mouth and insert the skewer diagonally from the top, and rotate the skewer.

180°, take out about 125 g of the sample, and take a total of about 250 g of partial sample on the second skewer.

4.5.4 Sample storage

The moisture sample should be placed in a clean and sealed container, and the moisture content should not change before the measurement.

5.1 Sample preparation tools

5.1.1

Sampling shovel (same size as 5.2).

5.1.2

Jaw crusher. SP100 mmx60 mm.